Approved For Release 2002/08/14 : CARD 1B00879R001000110095-9

OXC-4814-65 Copy /201/0 150CT

MEMORANDUM FOR THE RECORD

SUBJECT : Model 220 Tracker - Status and Operational Outline

Status of Model 220 tracker systems for Ope-INS test checking:

- 1. 4- Model 220 tracker camera's with electric clock, frame marker and 80 mm lens.
 - 6- 70 mm magazines for Model 220 tracker units.
 - 4- Intervalemeter boxes with driver panel control; 6, 12, 18 second timing.
 - 4- Driver Panels with run, two minute operate and MATE MOUSE.
 - 4- Madio interference Illters.
 - 4- Interconnecting cables.
- 2. Equipment has been delivered

25X1

Tracker Camera:

干型 他的现在	28. Martings e	3b. 4c		
2.	Tracker	Vaita	Locate-	25X1
1~	76	æ	74	
ì-	**	**	van.	
ia az	ines:			
6	MAHARIM	e Units	Locate-	
Mater	ial 70an	:		
5	Rolls		Locate-	
120-	**		-	-a
			DREWSLAT TO CLASS. A	25X1
		ceobt		

SUME

Approved For Release 2002/08/14: CIA-RDP81B00879R001000100010095-9

Approved For Release 2002/08/14 : \$16.00 879R001000110095-9

OXE-4814-63 Page 2

Intervalometers:						
2- Intervalosoter	r Units Locate-	25X1				
controlled fro	ablice. Intervalor on the Nav Mode. S marked automaticall ton.	pecial frame				
F- Intervalometer	r Units Locate-	25X1				
by the driver	ablies. Intervalor panel. Nav Mode a No interconnection	CVARCES ORE				
Shock Mounted France	:					
2- Francis	Locate-					
**	Locate-					
£ **	Locato-					
Driver Costrol Pasel	t					
3- Panels	Locate-					
for use with the standard intervaloneter box only.						
1- Panel	Locate	25X1				
Altered for boxes.	each testing modifi	ed intervalemeter				
Radio Interference F.	iltora:					
4- Filters	Locate	25X1				
Intervalence or Filter Interconnecting Cables:						
4- Cables	Locate-	. 25X1				

Approved For Release 2002/08/14: CPART 81B00879R001000110095-9

OXC-4814-63 Page 3

25X1

1- Cable	Locate-	25X1
hatch. Addition required. (Int Type II equipmen	no payload and Type III lower hal cables to be provided as terface cable to be used with it to be fabricated when the ration equipment is Installed.	
Lower Eatch, Type III:		
1- Hatch	Locate-	25X 1
Tracker brackets	installed, no windows avail-	
The first tracker unit Article 127. (Note: The requirement of the completed tracker system is to be used type II packageffield crew.	uired vehicle and IMS wiring in Article 127 OWLY.) If the before the return of the	

General outline of the tracker installation:

should be coordinated with

25X1

- The tracker system may only be installed in the vehicles which have the required vehicle and INS wiring changes.
- Type III lower hatch with special support bracket should be made ready the day before a flight. Tracker comera, shock mounted frame, radio filter, intervalorater box and interconnecting cable should be placed on the hatch.
- 3. The camera electric clock should be time backed with Ops reference.
- Select and install desired less filter. When using Type 4400 material, the yellow filter will normally be used. Set exposure time for 1/500 second. F/s setting is recommended for laitial testing of the system.

CKC-4814-63 Page 4

- 5. Select the desired intervaloneter time of 6, 12, or 18 seconds with the associated time switch.
- Install interface cable in the Q bay. Connectors Q4, Q5, and Q6 should be mated, and the cable secured in place.
- 7. The tracker magazine should be loaded with a 190 feet roll ow 70mm Type 4400 material by the Type II or Process personnel.

 After the magazine has been loaded, it will be taken to the hangar and mated with the tracker camera on the lower hatch.

25X1

- Clean inside surface of window and camera leas and filter with soft cloth and a one to one solution of alcohol and water.
- 8. Exing lower batch into position under the Q bay and raise to a point where there is reem remaining to reach in the aft end of the assembly and mate the tracker-vehicle interface cable with the intervalemeter box. (Note. Once the interface connector is mated with the intervalemeter box, the equipment will operate automatically when over the Nav Note signal is present from the INS equipment.)
- 10. Close and secure the bottom hatch assembly.
- 11. The tracker camera requires the following impets in order to operate. Hence, the associated circuit breakers must be closed.
 - a. Phase A, 400 cycle power from inverter #2 (Q bay breakers)
 - b. 28 V BC to Q bay from the Th supply.
 - c. May, Store and VGM lines from the IMS connector.
- 12. Clear external surface of the tracker window.

SECRET

OXC-4814-65 Page 5

25X1

25X1

13. Operation of the camera is automatic. When the INS Nav Mode is initiated the camera will start, and continue to be sequenced by the intervalemeter until the Nav Mode is terminated. Material supply is equivalent to approximately 910 frames.

When the Fix-Store button is depressed, the camera will automatically advance one frame, and a special frame mark will be recorded on this frame. The time clock is recorded on all frames.

14. No tracker camera malfunction indication is provided for the driver.

At the end of the mission, the tracker should be unloaded as follows:

- l. Lower the bottom hatch until the intervalemeter mating connector can be reached from the aft end of the hatch. Remove connector.
- 2. Remove film magazine and forward to for processing. (Processing Mote. Material Type 4400, Size 70mm by 190 feet, process "full" with observer control when required).
- 3. Replace protection covers on film magazine and camera shutter assembly. Cover on shutter assembly is most important because of the extremely fragile focal plane shutter curtains.
- 4. Remove vehicle interface cable from Q bay and store.
- 5. If the special tracker lever hatch is to be stored any place other than in that the tracker camera we removed from the lower hatch mounting frame and stored in the Ops building or in

6. Evaluation of the processed material to be coordinated with the Ops and IRS groups.

7. Cover windows with breakage protection cover. Cover intervalometer box, tracker and frame with plantic or cloth for storage.

25X1

Approved For Release 2002/08/14 : CIA-RDP81B008Z9R001000110095-9

OXC-4814-65 Page 6

5. Modification of the remaining int	
Wiring schematic of the vehicle i	interface cable is enclosed
An additional instruction manual, maintenance manual will be provided to completion delay has been caused by to system and equipment specifications.	within 30 days. Manual
	SIZNED
	25X1
DDD/GGA: (10 October) Distribution: Cy 1 - AD/GGA 2 - D/TECH/GGA 3 - CD/GGA 4 - MD/GGA 5 - D/FA/GGA 6 - OD/GGA	1963)

25×1

- DD/OSA (chrono)